

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A wireless LAN apparatus comprising:

a reception section which receives frames including fragments respectively, each of the fragments having a predetermined size into which first data is divided;

a reading section which reads the total number of fragments based on the first data, the total number of fragments ~~being~~ containing the first frame being based on the first data, the first frame being first received by the reception section;

a queue that stores the received frames for each fragment;

a free-area detecting section which detects free areas in the queue;

a determining section which determines whether the amount of the first data based on the total number of fragments in the first data is larger than the amount of free areas in the queue or is equal to or smaller than the amount of free areas in the queue; [[and]]

a control section having a function of inserting fragments based on the first data into the queue if the determining section determines that the amount of the first data is equal to or smaller than the amount of free areas in the queue,

wherein if the determining section determines that the amount of the first data is larger than the amount of free areas in the queue, then the determining section determines whether a difference between the amount of the first data and the amount of free areas in the queue is larger than a predetermined amount or is equal to or smaller than the predetermined amount, and

the control section further functions in the following manner: if the determining section determines that the difference between the amount of the first data and the amount of free areas in the queue is equal to or smaller than the predetermined amount, the control section discards fragments of a second data, which is one of the items of data, some

fragments of which have already been inserted into the queue, the second data having a smallest percentage of the total number of fragments taken up by the number of fragments already inserted, while inserting the fragments based on the first data into the queue, and if the determining section determines that the difference between the amount of the first data and the amount of free areas in the queue is larger than the predetermined amount, the control section discards the fragments based on the first data.

Claim 2 (Canceled).

Claim 3 (Currently Amended): The wireless LAN apparatus according to claim [[2]] 1, wherein the control section further has a function of discarding the predetermined amount of pieces of data from the items of data in the order of increasing percentage of the total number of fragments taken up by the number of fragments already inserted.

Claim 4 (Currently Amended): The wireless LAN apparatus according to claim [[2]] 1, wherein the control section further has a function of discarding an amount of pieces of data equal to such fragments based on the first data that can all be inserted into the queue, from the items of data in the order of increasing percentage of the total number of fragments taken up by the number of fragments already inserted.

Claim 5 (Currently Amended): ~~The wireless LAN apparatus according to claim 1, A~~  
wireless LAN apparatus comprising:

a reception section which receives frames including fragments respectively, each of the fragments having a predetermined size into which first data is divided;

a reading section which reads the total number of fragments based on the first data, the total number of fragments containing the first frame being based on the first data, the first frame being first received by the reception section;

a queue that stores the received frames for each fragment;

a free-area detecting section which detects free areas in the queue;

a determining section which determines whether the amount of the first data based on the total number of fragments in the first data is larger than the amount of free areas in the queue or is equal to or smaller than the amount of free areas in the queue;

a control section having a function of inserting fragments based on the first data into the queue if the determining section determines that the amount of the first data is equal to or smaller than the amount of free areas in the queue,

wherein if the determining section determines that the amount of the first data is larger than the amount of free areas in the queue, then the determining section determines whether a difference between the amount of the first data and the amount of free areas in the queue is larger than a predetermined amount or is equal to or smaller than the predetermined amount, and

the control section further functions in the following manner: if the determining section determines that the difference between the amount of the first data and the amount of free areas in the queue is equal to or smaller than the predetermined amount, the control section discards fragments of a second data, which is one of the items of data, some fragments of which have already been inserted into the queue, the second data having a first frame received earliest, while inserting the fragments based on the first data into the queue, and if the determining section determines that the difference between the amount of the first data and the amount of free areas in the queue is larger than the predetermined amount, the control section discards the fragments based on the first data.

Claim 6 (Original): The wireless LAN apparatus according to claim 5, wherein the control section further has a function of discarding the predetermined amount of pieces of data from the items of data in the order of the time at which the first frame is received.

Claim 7 (Original): The wireless LAN apparatus according to claim 5, wherein the control section further has a function of discarding an amount of pieces of data equal to such fragments based on the first data that can all be inserted into the queue 16, from the items of data in the order of the time at which the first frame is received.

Claim 8 (Currently Amended): ~~The wireless LAN apparatus according to claim 1, A~~  
wireless LAN apparatus comprising:

a reception section which receives frames including fragments respectively, each of the fragments having a predetermined size into which first data is divided;

a reading section which reads the total number of fragments based on the first data, the total number of fragments containing the first frame being based on the first data, the first frame being first received by the reception section;

a queue that stores the received frames for each fragment;

a free-area detecting section which detects free areas in the queue;

a determining section which determines whether the amount of the first data based on the total number of fragments in the first data is larger than the amount of free areas in the queue or is equal to or smaller than the amount of free areas in the queue;

a control section having a function of inserting fragments based on the first data into the queue if the determining section determines that the amount of the first data is equal to or smaller than the amount of free areas in the queue.

wherein if the determining section determines that the amount of the first data is larger than the amount of free areas in the queue, then the determining section determines whether a difference between the amount of the first data and the amount of free areas in the queue is larger than a predetermined amount or is equal to or smaller than the predetermined amount, and

the control section further functions in the following manner: if the determining section determines that the difference between the amount of the first data and the amount of free areas in the queue is equal to or smaller than the predetermined amount, the control section discards fragments of a second data, which is one of the items of data, some fragments of which have already been inserted into the queue, a percentage of the total number of fragments in the second data taken up by the number of fragments already inserted being smaller than a predetermined percentage, a first frame of the second data being received earliest, while inserting the fragments based on the first data into the queue, and if the determining section determines that the difference between the amount of the first data and the amount of free areas in the queue is larger than the predetermined amount, the control section discards the fragments based on the first data.

Claim 9 (Original): The wireless LAN apparatus according to claim 8, wherein the control section further has a function of discarding the predetermined amount of pieces of data from the items of data, in which the percentage is smaller than the predetermined percentage, in the order of the time at which the first frame is received.

Claim 10 (Original): The wireless LAN apparatus according to claim 8, wherein the control section further has a function of discarding an amount of pieces of data equal to such fragments based on the first data that can all be inserted into the queue, from the items of

data, in which the percentage is smaller than the predetermined percentage, in the order of the time at which the first frame is received.

Claim 11 (Original): The wireless LAN apparatus according to claim 1, further comprising a total-number detecting section which detects the total number of fragments in third data;

an inserting section which inserts the total number of fragments in the third data into a first frame containing one of a plurality of fragments of the third data which one is to be transmitted first; and

a transmission section which transmits the first frame based on the third data.

Claim 12 (Currently Amended): A wireless LAN apparatus comprising:

a reception section which receives frames including fragments respectively, each of the fragments having a predetermined size into which first data is divided;

a reading section which reads the total number of fragments based on the first data, the total number of fragments [[being]] containing the first frame being based on the first data, the first frame being received first by the reception section;

a determining section which determines whether the percentage of the total number of fragments in the first data taken up by the number of already received fragments based on the first data to is equal to or larger than a predetermined value or is smaller than the predetermined value;

a control section which sets a max receive lifetime indicative of an allowable range of time required to receive fragments based on one data by increasing the max receive lifetime by a predetermined extension time if the determining section determines that the percentage is larger than the predetermined value; [[and]]

an aging processing section which executes a process of discarding data for which all fragments have not been received when the max receive lifetime has elapsed,

wherein the determining section carries out determination when a predetermined time has elapsed, the predetermined time being shorter than the max receive lifetime, and

if the determining section determines that the percentage is equal to or larger than the predetermined value, the control section sets the max receive lifetime by increasing the lifetime by the predetermined extension time, and if the determining section determines that the percentage is smaller than the predetermined value, the control section sets the max receive lifetime by reducing the lifetime by a predetermined shortening time.

Claim 13 (Original): The wireless LAN apparatus according to claim 12, wherein the determining section carries out determination when the max receive lifetime has elapsed.

Claim 14 (Canceled).

Claim 15 (Amended): The wireless LAN apparatus according to claim 12, further comprising a total-number detecting section which detects the total number of fragments in a second data;

an inserting section which inserts the total number of fragments in the second data into a first frame containing one of a plurality of fragments of the second data which one is to be transmitted first; and

a transmission section which transmits the first frame based on the second data.

Claim 16 (Canceled).

Claim 17 (New): The wireless LAN apparatus according to claim 5, further comprising a total-number detecting section which detects the total number of fragments in third data;

an inserting section which inserts the total number of fragments in the third data into a first frame containing one of a plurality of fragments of the third data which one is to be transmitted first; and

a transmission section which transmits the first frame based on the third data.

Claim 18 (New): The wireless LAN apparatus according to claim 8, further comprising a total-number detecting section which detects the total number of fragments in third data;

an inserting section which inserts the total number of fragments in the third data into a first frame containing one of a plurality of fragments of the third data which one is to be transmitted first; and

a transmission section which transmits the first frame based on the third data.